

ABSTRACT OF THE DISCLOSURE

A three-axis antenna chip includes a cross-shaped core made of a magnetic substance. The core includes an X-axis core piece and a Y-axis core piece. The core pieces are laid on top of each other such that the core pieces extend perpendicular to each other. An X-axis coil portion is provided about the X-axis core piece, and a Y-axis coil portion is provided about the Y-axis core piece. A Z-axis coil portion is provided about a Z-axis that is perpendicular to the X-axis core piece and the Y-axis core piece. The three-axis antenna chip thus constructed is advantageous in reducing the size.